

12-10-03



In The United States Patent and Trademark Office

HONORABLE COMMISSIONER
FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Information Disclosure Statement of "Reinforced Composite System for Constructing Insulated Concrete Structures" by Daniel D. Dunn et al. Application No. 10/660,944, a continuation in part of Serial No. 09/803,205 filed March 09, 2001, now patent no. 6,647,686 titled "System for Constructing Insulated Concrete Structures."

Pursuant to the guidelines for Information Disclosure Statements set forth in 37 C.F.R. Sections 1.97-1.99 and MPEP Section 609, Applicant(s) submit(s) herewith patents, publications or other information of which he/she/they is/are aware, which may be material to the examination of this application and may be a duty of disclosure in accordance with 37 CFR 1.56.

A list of patent(s) and/or publication(s) is set forth on the attached Form "Information Disclosure Statement by Applicant."

The present invention discloses panels having reinforcement layers adhered to a foam plastic core. The tongue and grove are also wrapped with the same reinforcement or with preformed units. This totally encases and reinforces the foam core. The reinforcement layers strengthen the panels and protect the foam core from physical damage. The reinforced panels substantially reduce form deflection while pouring a wall, allowing concrete to be poured in higher lifts reducing the time and cost involved and virtually eliminates blowouts. Horizontal

stiffeners are disclosed embedded within and adhered to the foam plastic core and located at the midpoint of each panel. The horizontal stiffeners further reduce panel deflection by shortening the distance the foam core must span from the bottom to the top of each panel.

When using stucco or elastomeric exterior finishes on ICFS systems the joints between forms must be pre-treated by reinforcing and coating the joint to prevent the finish coat from cracking. On known art systems the pre-treatment causes unsightly bulges in the finish coat. The present invention discloses a tapered edge around the perimeter of the outside face of each panel which allows the pre-treatment to be installed flush with the surface of each panel.

The present invention discloses spreaders used to interconnect the form panels having first and second flanges connected by horizontal members with multiple formations. The formations in the topmost horizontal member are located in the top of said member, the topmost horizontal member being located substantially at the top of the flanges. The formations in the bottommost horizontal member are located in the bottom of said member, the bottommost horizontal member being located substantially at the bottom of the flanges. When the spreaders are stacked the formations in the top and bottom horizontal members compliment the formations of adjacent spreaders. The horizontal member from the upper spreader resting upon the horizontal member of the spreader below, the complimentary formations each forming half of a full circle, allowing wall reinforcement bars to be restrained within the circular formations. The applicants are not aware of any known art systems that totally restrain wall reinforcing bars in this method. The reinforcement retaining means provided in U.S. Patent No. 6,536,172 entitled "Insulating Construction Form and Manner of Employment for Same" issued to Amend Mar. 25, 2003, is typical of the methods used in the known art systems. The reinforcement seat is open on the top and while the retainer arms are meant to provide a snap fit it is impossible for them to accommodate large and small

reinforcement bars with the same web or tie member. The wall reinforcing must be tied to the web or tie members to prevent the reinforcement from popping out of the seat and becoming displaced while pouring concrete in the forms. The complimentary circular formations of the present invention totally restrain the reinforcement and one size of formation can be used to accommodate the most common reinforcement bar sizes.

The applicants are not aware of any method patented, disclosed, in use or known in the art that achieves the results of the above method disclosed in the present invention.

U.S. Patent No. 6,336,301 entitled "Concrete Form System Ledge Assembly and Method" issued to Moore, Jr. Jan 8, 2002, discloses a ledge assembly including a ledge panel, at least one ledge web member and a plurality of ledge attachment couplings. This provides a method of fabricating a concrete wall having one or more weight bearing ledge surfaces. The above referenced patent fails to show a method that achieves the results of the present invention in that the present invention discloses the use of a hinged form comprising opposing panels one of which has at least one horizontal pivotal section. The pivotal section allows the form panels to be shipped flat saving space. The panels may then be assembled on site by rotating the panel containing the pivotal section and installing bearing ledge connectors and spreaders to interconnect the panels thus providing a haunch usable as a bearing ledge. Hinged forms comprising opposed panels containing vertical pivotal sections may be used to form corners. Again the panels may be shipped flat saving space and rotated into position on site. The applicants are not aware of any existing method which achieves these results.

The below referenced patents are substantively cumulative, copies of these patents are not included in accordance with 37 CFR 1.98.

U.S. Patent No. 4,223,501 DeLozier Sep. 23, 1980

U.S. Patent No. 4,229,920 Lount Oct. 28, 1980

U.S. Patent No. 4,439,967 Dielenberg Apr. 3, 1984

U.S. Patent No. 4,604,843 Ott et al. Aug. 12, 1986

U.S. Patent No. 4,698,947 McKay Oct. 13, 1987

U.S. Patent No. 4,706,429 Young Nov. 17, 1987

U.S. Patent No. 4,730,422 Young Mar. 15, 1988

U.S. Patent No. 4,731,968 Obino Mar. 22, 1988

U.S. Patent No. 4,866,891 Young Sep. 19, 1989

U.S. Patent No. 4,884,382 Horobin Dec. 5, 1989

U.S. Patent No. 5,014,480 Guarriello et al. May 14, 1991

U.S. Patent No. 5,102,710 Kaufman et al. Apr. 7, 1992

U.S. Patent No. 5,107,648 Roby Apr. 28, 1992

U.S. Patent No. 5,123,222 Guarriello et al. Jun. 23, 1992

U.S. Patent No. 5,140,794 Miller Aug. 25, 1992

U.S. Patent No. 5,390,459 Mensen Feb. 21, 1995

U.S. Patent No. 5,465,542 Terry Nov. 14, 1995

U.S. Patent No. 5,487,284 Artzer Jan. 30, 1996

U.S. Patent No. 5,568,710 Smith et al. Oct. 29, 1996

U.S. Patent No. 5,570,550 Roby Nov. 5, 1996

U.S. Patent No. 5,570,552 Nehring Nov. 5, 1996

U.S. Patent No. 5,596,855 Batch Jan. 28, 1997

U.S. Patent No. 5,611,182 Spude Mar. 18, 1997
U.S. Patent No. 5,625,989 Brubaker et al. May 6, 1997
U.S. Patent No. 5,649,401 Harrington, Jr. Jul. 22, 1997
U.S. Patent No. 5,657,600 Mensen Aug. 19, 1997
U.S. Patent No. 5,658,483 Boeshart Aug. 19, 1997
U.S. Patent No. 5,664,382 Melnick et al. Sep. 9, 1997
U.S. Patent No. 5,701,710 Tremelling Dec. 30, 1997
U.S. Patent No. 5,704,180 Boeck Jan. 6, 1998
U.S. Patent No. 5,709,060 Vaughan et al. Jan. 20, 1998
U.S. Patent No. 5,735,093 Grutsch Apr. 7, 1998
U.S. Patent No. 5,771,648 Miller et al. Jun. 30, 1998
U.S. Patent No. 5,809,727 Mensen Sep. 22, 1998
U.S. Patent No. 5,809,728 Tremelling Sep. 22, 1998
U.S. Patent No. 5,845,449 Vaughan et al. Dec. 8, 1998
U.S. Patent No. 5,852,907 Tobin et al. Dec. 29, 1998
U.S. Patent No. 5,887,401 Moore, Jr. Mar. 30, 1999
U.S. Patent No. 5,890,337 Boeshart Apr. 6, 1999
U.S. Patent No. 5,924,247 Van Horn et al. Jul. 20, 1999
U.S. Patent No. 5,930,958 Stanley Aug. 3, 1999
U.S. Patent No. 5,987,830 Worley Nov. 23, 1999
U.S. Patent No. 5,992,114 Zelinsky et al. Nov. 30, 1999
U.S. Patent No. 6,070,380 Meilleur Jun. 6, 2000
U.S. Patent No. 6,128,882 Jones Oct. 10, 2000
U.S. Patent No. 6,134,861 Spude Oct. 24, 2000
U.S. Patent No. 6,230,462 Beliveau May. 15, 2001

U.S. Patent No. 6,305,142 Brisson et al. Oct. 23, 2001

U.S. Patent No. 6,318,040 Moore, Jr. Nov. 20, 2001

U.S. Patent No. 6,378,260 Williamson et al. Apr. 30, 2002

U.S. Patent No. 6,401,419 Beliveau Jun. 11, 2002

U.S. Patent No. 6,418,646 Record Jul. 16, 2002

U.S. Patent No. 6,438,918 Moore, Jr. et al. Aug. 27, 2002

While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

Respectfully submitted,

NAME: Daniel D. Dunn

Daniel D. Dunn

ADDRESS: P.O. Box 308 Honeyville, Utah 84314

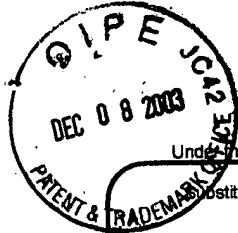
DATE: 12/8/2003

NAME: David C. Dunn

David C. Dunn

ADDRESS: P.O. Box 308 Honeyville, Utah 84314

DATE: 12/8/2003



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Institute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of 3

Complaint Known

Application Number	10/660944
Filing Date	09/12/2003
First Named Inventor	Daniel D. Dunn
Art Unit	
Examiner Name	

Attorney Docket Number

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 4,223,501	Sep 23, 1980	DeLoizier	
		US- 4,229,920	Oct 28, 1980	Lount	
		US- 4,439,967	Apr 3, 1984	Deilenberg	
		US- 4,604,843	Aug 12, 1986	Ott et al.	
		US- 4,698,947	Oct 13, 1987	McKay	
		US- 4,706,429	Nov 17, 1987	Young	
		US- 4,730,422	Mar 15, 1988	Young	
		US- 4,731,968	Mar 22, 1988	Obino	
		US- 4,866,891	Sep 19, 1989	Young	
		US- 4,884,382	Dec 5, 1989	Horobin	
		US- 5,014,480	May 14, 1991	Guarriello et al.	
		US- 5,102,710	Apr 7, 1992	Kaufman et al.	
		US- 5,107,648	Apr 28, 1992	Roby	
		US- 5,123,222	Jun 23, 1992	Guarriello et al.	
		US- 5,140,794	Aug 25, 1992	Miller	
		US- 5,390,459	Feb 21, 1995	Mensen	
		US- 5,465,542	Nov 14, 1995	Terry	
		US- 5,487,284	Jan 30, 1996	Artzer	
		US- 5,568,710	Oct 9, 1996	Smith et al.	

FOREIGN PATENT DOCUMENTS

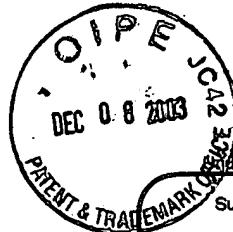
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶

Examiner Signature	Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 12

of 3

Complete if Known

Application Number	10/660944
Filing Date	09/12/2003
First Named Inventor	Daniel D. Dunn
Art Unit	
Examiner Name	
Attorney Docket Number	

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		US- 5,570,550	Nov 5, 1996	Roby
		US- 5,570,552	Nov 5, 1996	Nehring
		US- 5,596,855	Jan 28, 1997	Batch
		US- 5,611,182	Mar 18, 1997	Spude
		US- 5,625,989	May 6, 1997	Brubaker et al.
		US- 5,649,401	Jul 22, 1997	Harrington, Jr.
		US- 5,657,600	Aug 19, 1997	Mensen
		US- 5,658,483	Aug 19, 1997	Boeshart
		US- 5,664,382	Sep 9, 1997	Melnick et al.
		US- 5,701,710	Dec 30, 1997	Tremelling
		US- 5,704,180	Jan 6, 1998	Boeck
		US- 5,709,060	Jan 20, 1998	Vaughan et al.
		US- 5,735,093	Apr 7, 1998	Grutsch
		US- 5,771,648	Jun 30, 1998	Miller et al.
		US- 5,809,727	Sep 22, 1998	Mensen
		US- 5,809,728	Sep 22, 1998	Tremelling
		US- 5,845,449	Dec 8, 1998	Vaughan et al.
		US- 5,852,907	Dec 29, 1998	Tobin et al.
		US- 5,887,401	Mar 30, 1999	Moore, Jr.

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)		Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
				T ⁶

Examiner Signature		Date Considered
--------------------	--	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3

of 3

Complete if Known

Application Number	10/660944
Filing Date	09/12/2003
First Named Inventor	Daniel D. Dunn
Art Unit	
Examiner Name	
Attorney Docket Number	

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>if known</i>)			
		US- 5,890,337	Apr 6, 1999	Boeshart	
		US- 5,924,247	Jul 20, 1999	Van Horn et al.	
		US- 5,930,958	Aug 3, 1999	Stanley	
		US- 5,987,830	Nov 23, 1999	Worley	
		US- 5,992,114	Nov 30, 1999	Zelinsky et al.	
		US- 6,070,380	Jun 6, 2000	Meilleur	
		US- 6,128,882	Oct 10, 2000	Jones	
		US- 6,134,861	Oct 24, 2000	Spude	
		US- 6,230,462	May 15, 2001	Beliveau	
		US- 6,305,142	Oct 23, 2001	Brisson et al.	
		US- 6,318,040	Nov 20, 2001	Moore, Jr.	
		US- 6,378,260	Apr 30, 2002	Williamson et al.	
		US- 6,401,419	Jan 11, 2002	Beliveau	
		US- 6,418,646	Jul 16, 2002	Record	
		US- 6,438,918	Aug 27, 2002	Moore, Jr. et al.	
		US- 6,336,301	Jan 8, 2002	Moore, Jr.	
		US- 6,536,172	Mar 25, 2003	Amend	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (<i>if known</i>)				

Examiner Signature	Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P. O. Box 1490, Alexandria, VA 22313-1490.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.